



## **AMENDMENTS TO THE DRAWINGS**

The attached sheets of drawings include changes to FIGS. 1 through 5. These sheets replace the original sheets. In each FIG., “/5” has been deleted.

Attachments: Replacement Sheets

Annotated Sheets Showing Changes

## **REMARKS**

Upon entry of this Response, claims 1, 3-7, 9, and 26-27 will be amended, claims 2, 8, 11-25, and 28-29 will be canceled, and claims 30-34 will be added. Thus, claims 1, 3-7, 9-10, 26-27, and 30-34 will remain pending. The claims have been amended solely to expedite prosecution of the present application, and no new matter has been added. Applicant reserves the right to pursue the subject matter of the originally filed claims in this and/or another application. Reconsideration and further examination are respectfully requested in view of the following remarks.

### **Specification**

The title of the invention is objected to as being not descriptive. A new title has been provided in view of the Examiner's helpful comments.

### **Objection to Drawings**

The drawings stand objected to because the Figures are labeled/numbered as, for example, "Figure 1/5" which should be labeled as "Figure 1." Replacement drawing have been provided in view of the Examiner's helpful comments

### **Claims Objections under 37 C.F.R. 1.75(a)**

Claims 1-10, 26 and 27 are objected to for failing to particularly point out and distinctly claim the subject matter which the Applicant regards as the invention. The claims have been amended in view of the Examiner's helpful comments.

### **Claims 26-27 and 30-31**

Applicant gratefully acknowledges the Examiner's statement that claims 26-27 contain allowable subject matter. Newly added claims 30-31 contain similar limitations and Applicant respectfully requests allowance of these claims.

**Claims 1, 3-7, 9-10, and 32-34**

Applicant gratefully acknowledges the Examiner's statement that claims 3-4 as originally filed contained allowable subject matter. Claim 1 has been amended to recite that energy is measured incident at a first and second frequency in a frequency spectrum associated with a channel. It is determined whether the energy measured for at least one of the first or second frequencies exceeds a valid channel threshold. A bandwidth is also determined based on the two frequencies, and a channel type is identified based on the determined bandwidth.

In claim 3, the two frequencies represent a center and edge frequency (and the determined bandwidth is associated with double the range between them). In claim 4, the two frequencies represent edge frequencies (and the determined bandwidth is associated with the range between them). Applicant respectfully suggests that none of the references, taken alone or in combination, disclose or suggest such methods and request allowance of claim 1 (and claims 3-7 and 9-10 dependent thereon).

Newly added claims 32-34 contain similar limitations and Applicant respectfully requests allowance of these claims.

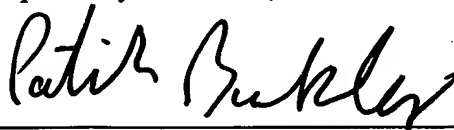
**CONCLUSION**

Accordingly, Applicant respectfully requests allowance of the pending claims. If any issues remain, or if the Examiner has any further suggestions for expediting allowance of the present application, the Examiner is kindly invited to contact the undersigned via telephone at (203) 972-0191.

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Date

Respectfully submitted,



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# Method of Analyzing a Spectrum

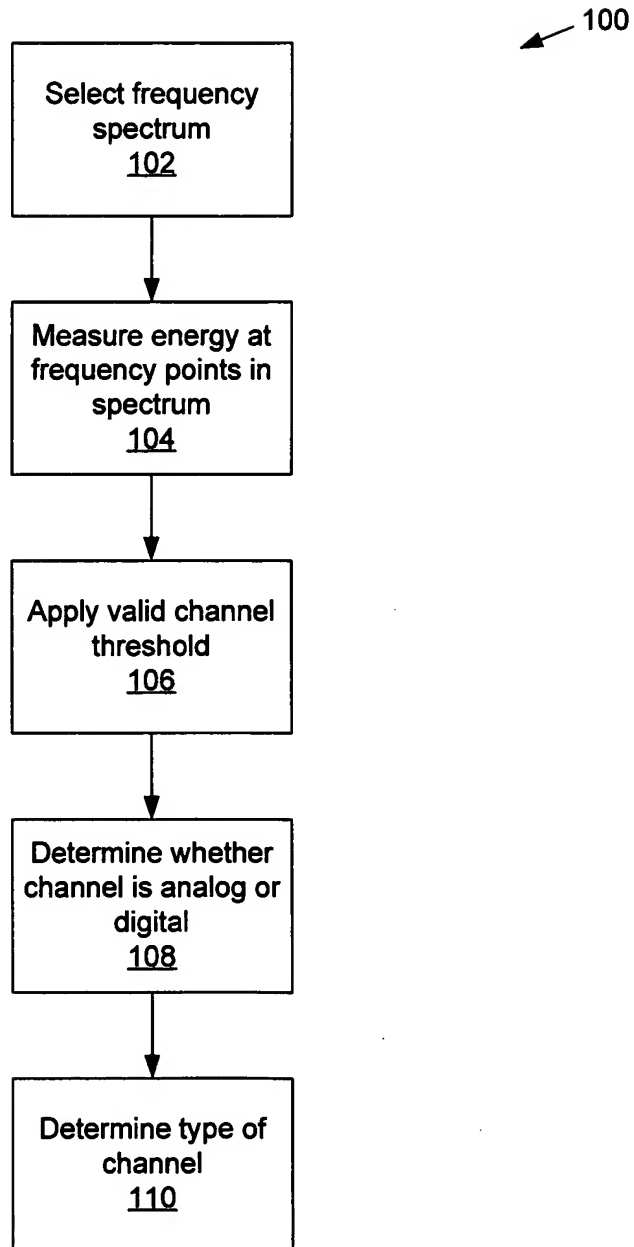


Figure 1/5

# Spectrum Analyzer

120

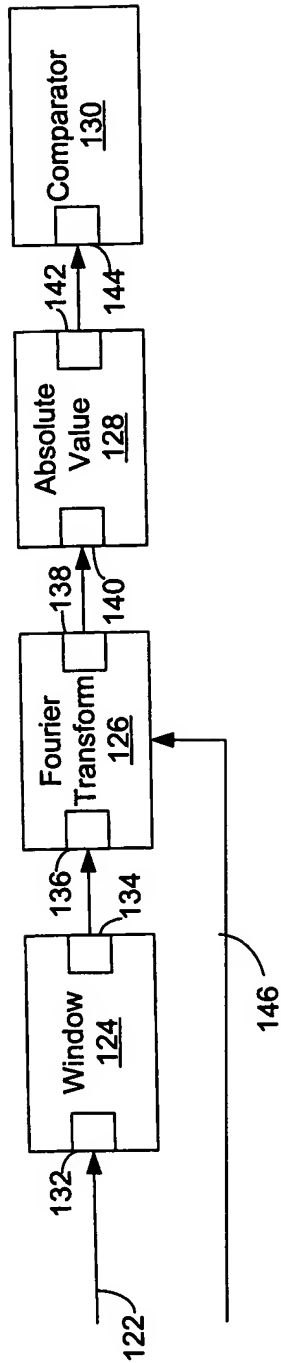


Figure 2/5

Cable Modem

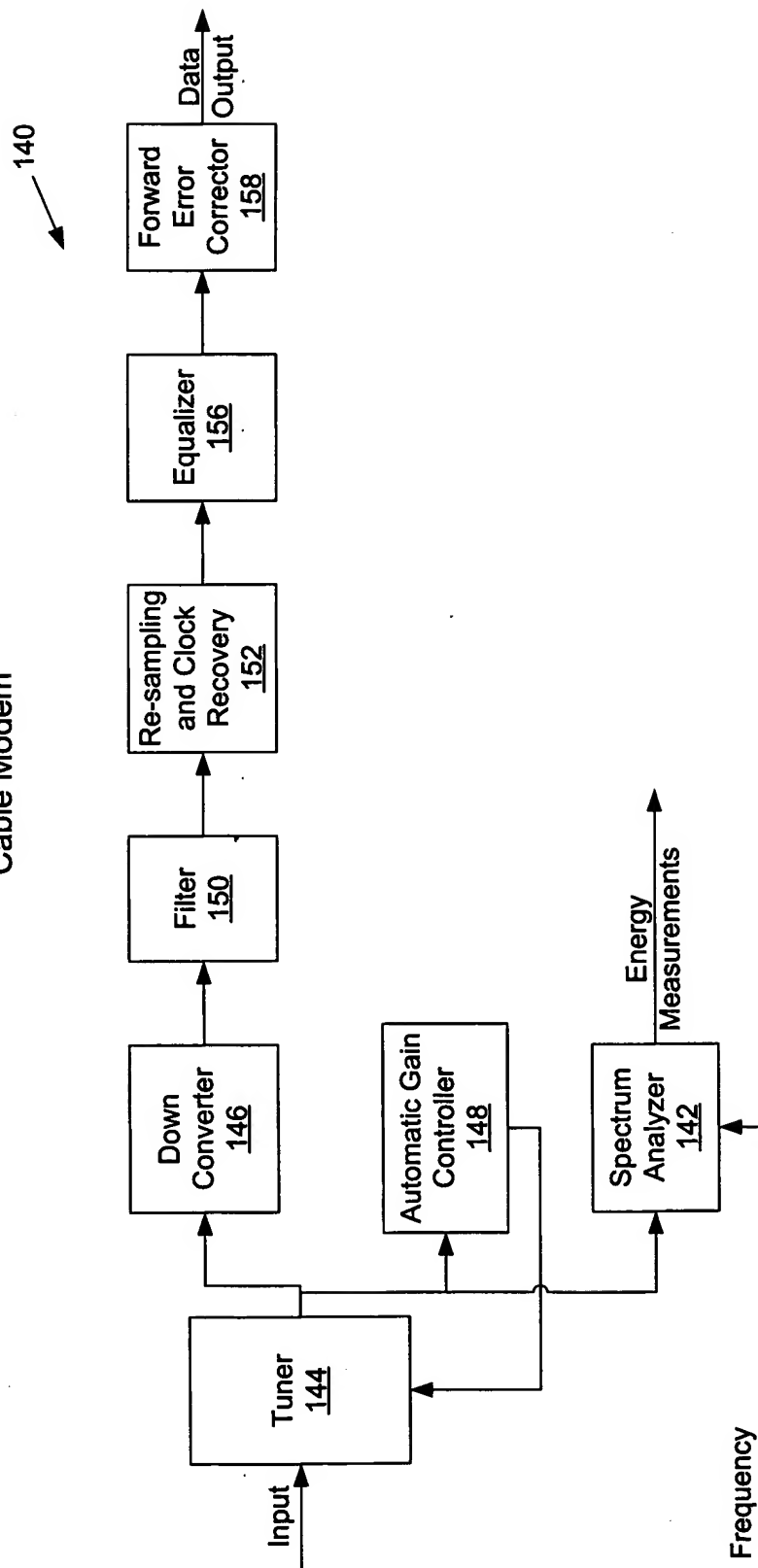


Figure 3/ 5

# Viewing Device

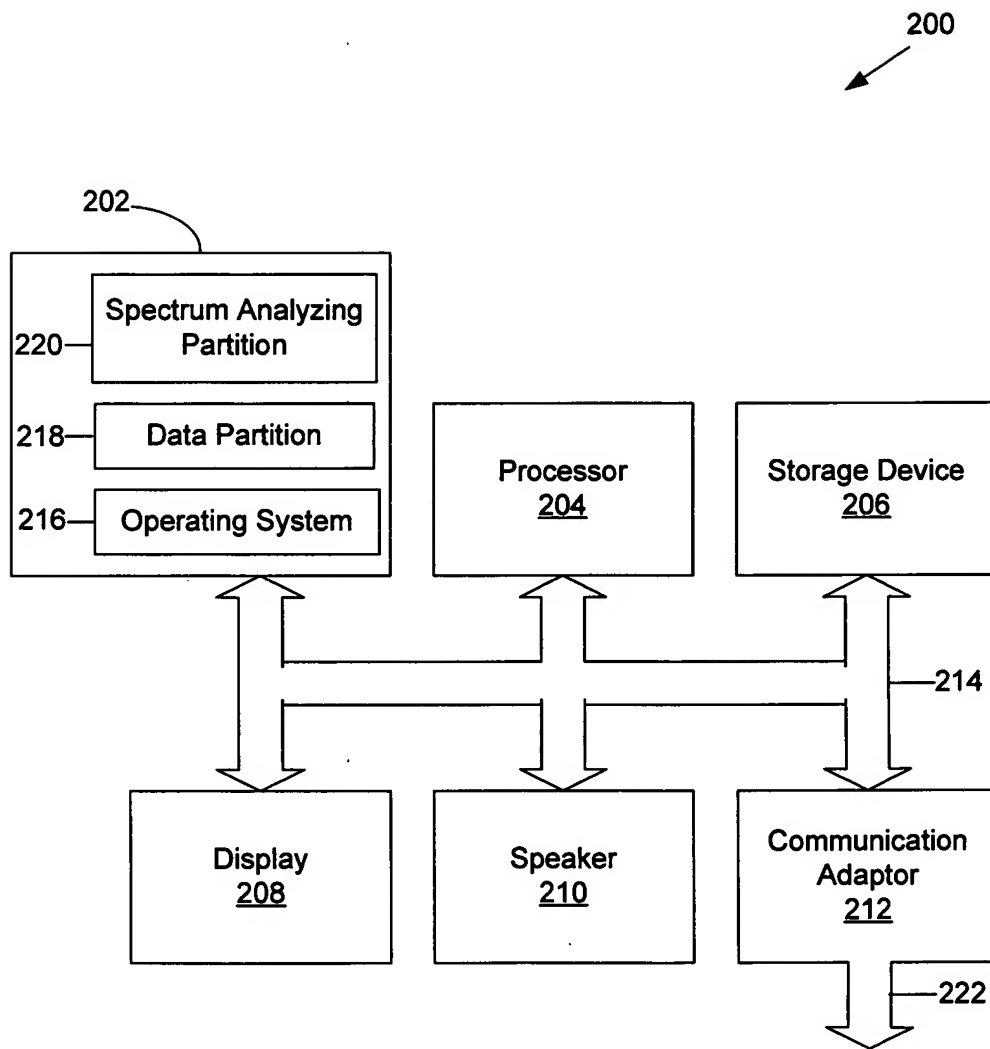


Figure 4/5

Cable Modem Network

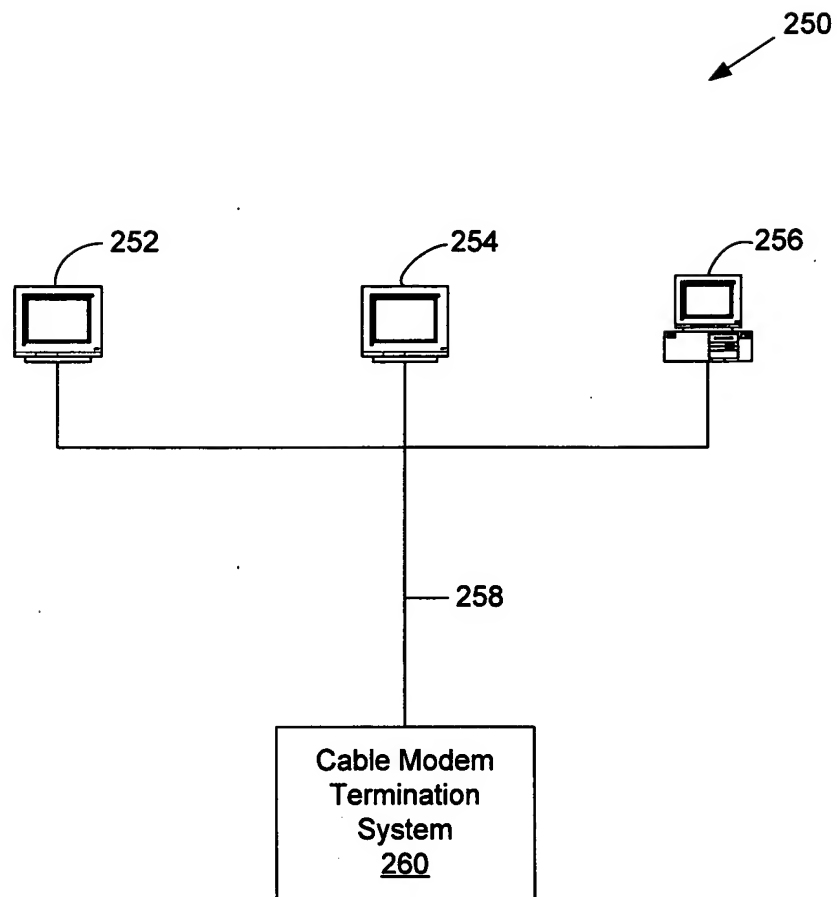


Figure 5 <sup>5</sup>